


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX


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|---|--|----------------------|--|------------|---------------------------|
| Date Oct. 21, 2013 | | | EPA Reg. No./File Symbol 89349-1 | | Page 1 of 9 |
| Applicant's/Registrant's Name & Address Willowood Abamectin, LLC 1600 NW Garden Valley Blvd., Suite 120 Roseburg, OR 97471 | | | Product Willowood Abamectin Technical | | |
| Ingredient Abamectin (CAS Nos. 65195-55-3 and CAS No. 65195-56-4) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| Product Specific Data Requirements | | | | | |
| 830.1550 | Product Identity and Composition | Volume 1 48898701 | Willowood Abamectin, LLC Willowood Abamectin, LLC | OWN OWN | |
| 830.1600 | Description of Materials Used to Produce the Product | Volume 1 48898701 | Willowood Abamectin, LLC Willowood Abamectin, LLC | OWN OWN | |
| 830.1620 | Description of Production Process | Volume 1 48898701 | Willowood Abamectin, LLC Willowood Abamectin, LLC | OWN OWN | |
| 830.1650 | Description of Formulation Process | | | | Not Required ¹ |
| 830.1670 | Discussion of Formation of Impurities | Volume 1 48898701 | Willowood Abamectin, LLC Willowood Abamectin, LLC | OWN OWN | |
| 830.1700 | Preliminary Analysis | Volume 2 48898702 | Willowood Abamectin, LLC Willowood Abamectin, LLC | OWN OWN | |
| 830.1750 | Certified Limits | Volume 1 48898701 | Willowood Abamectin, LLC Willowood Abamectin, LLC | OWN OWN | |
| Signature  | | | Name and Title Ann M. Tullman, Consultant | | Date Oct. 21, 2013 |

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| Ingredient Abamectin (CAS Nos. 65195-55-3 and CAS No. 65195-56-4) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| 830.1800 | Enforcement Analytical Method | Volume 1 | Willowood Abamectin, LLC | OWN | |
| | | Volume 2 | Willowood Abamectin, LLC | OWN | |
| | | 48898701 | Willowood Abamectin, LLC | OWN | |
| | | 48898702 | Willowood Abamectin, LLC | OWN | |
| 830.6302 | Color | 48898703 | Willowood Abamectin, LLC | OWN | |
| 830.6303 | Physical State | 48898703 | Willowood Abamectin, LLC | OWN | |
| 830.6304 | Odor | 48898703 | Willowood Abamectin, LLC | OWN | |
| 830.6313 | Stability to Normal and Elevated Temperatures, Metals, and Metal Ions | 48898703 | Willowood Abamectin, LLC | OWN | Data Waiver ² |
| | | 48898704 | Willowood Abamectin, LLC | OWN | |
| 830.6314 | Oxidation/Reduction: Chemical Incompatibility | 48898703 | Willowood Abamectin, LLC | OWN | |
| 830.6315 | Flammability | 48898704 | Willowood Abamectin, LLC | OWN | Waiver ³ |
| 830.6316 | Explosibility | 48898704 | Willowood Abamectin, LLC | OWN | Waiver ⁴ |
| 830.6317 | Storage Stability | 48898704 | Willowood Abamectin, LLC | OWN | PRN 92-5 ⁵ |
| 830.6319 | Miscibility | | | | Not Required ⁶ |
| 830.6320 | Corrosion Characteristics | 48898704 | Willowood Abamectin, LLC | OWN | PRN 92-5 ⁵ |
| Signature  | | | Name and Title Ann M. Tillman, Consultant | | Date Oct. 21, 2013 |

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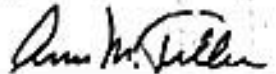
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| Applicant's/Registrant's Name & Address Willowood Abamectin, LLC 1600 NW Garden Valley Blvd., Suite 120 Roseburg, OR 97471 | | | Product Willowood Abamectin Technical | | |
| Ingredient Abamectin (CAS Nos. 85195-55-3 and CAS No. 85195-56-4) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| 830.6321 | Dielectric Breakdown Voltage | | | | Not Required ⁶ |
| 830.7000 | pH | 48898703 | Willowood Abamectin, LLC | OWN | |
| 830.7050 | UV/Visible Absorption | 48898703 | Willowood Abamectin, LLC | OWN | |
| 830.7100 | Viscosity | | | | Not Required ⁶ |
| 830.7200 | Melting Point/Melting Range | 48898705 | Willowood Abamectin, LLC | OWN | |
| 830.7220 | Boiling Point/Boiling Range | | | | Not Required ⁷ |
| 830.7300 | Density/Relative Density/Bulk Density | 48898703 | Willowood Abamectin, LLC | OWN | |
| 830.7370 | Dissociation Constants in Water | 48898704 | Willowood Abamectin, LLC | OWN | Waiver ⁸ |
| 830.7520 | Particle Size, Fiber Length, and Diameter Distribution | | | | Not Required ⁸ |
| 830.7550 | Partition Coefficient (n-octanol/water), Shake Flask Method | 48898706 | Willowood Abamectin, LLC | OWN | |
| 830.7560 | Partition Coefficient (n-octanol/water), Generator Column Method | | | | See 830.7550 |
| Signature  | | | Name and Title Ann M. Tillman, Consultant | | Date Oct. 21, 2013 |

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| Ingredient Abamectin (CAS Nos. 65195-55-3 and CAS No. 65195-58-4) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| 830.7570 | Partition Coefficient (n-octanol/water). Estimation by Liquid Chromatography | | | | See 830.7550 |
| 830.7840 | Water Solubility: Column Elution Method; Shake Flask Method | 48898707 | Willowood Abamectin, LLC | OWN | |
| 830.7860 | Water Solubility, Generator Column Method | | | | See 830.7840 |
| 830.7950 | Vapor Pressure | 48898708 | Willowood Abamectin, LLC | OWN | |
| 870.1100 | Acute Oral Toxicity: Rat | Cite-All | | PAY | |
| 870.1200 | Acute Dermal Toxicity: Rat | Cite-All | | PAY | |
| 870.1300 | Acute Inhalation Toxicity: Rat | Cite-All | | PAY | |
| 870.2400 | Primary Eye Irritation: Rabbit | Cite-All | | PAY | |
| 870.2500 | Primary Dermal Irritation | Cite-All | | PAY | |
| 870.2600 | Dermal Sensitization | Cite-All | | PAY | |
| Abamectin Product Specific and Generic Data Requirements | | | | | |
| Willowood Abamectin, LLC will make offers-to-pay to the following companies on the Abamectin data submitters list of Sept. 25, 2013. | | | | | |
| Signature  | | | Name and Title Ann M. Tillman, Consultant | | Date Oct. 21, 2013 |

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| Ingredient Abamectin (CAS Nos. 65195-55-3 and CAS No. 65195-56-4) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| | | Cite-All | Syngenta Crop Protection LLC | PAY | |
| | | Cite-All | Bayer Cropscience LP | PAY | |
| | | Cite-All | FMC Corp. Agricultural Products Group | PAY | |
| | | Cite-All | Chemtura Corp. | PAY | |
| | | Cite-All | Whitmire Micro-Gen Research Laboratories | PAY | |
| | | Cite-All | Merck & Co. Inc. | PAY | |
| | | Cite-All | Cleary Chemicals LLC | PAY | |
| | | Cite-All | McLaughlin Gormley King Co. | PAY | |
| | | Cite-All | Cheminova A/S | PAY | |
| | | Cite-All | S. C. Johnson & Son Inc. | PAY | |
| | | Cite-All | J. J. Mauget Co. | PAY | |
| | | Cite-All | Loveland Products, Inc. | PAY | |
| | | Cite-All | Nufarm Limited | PAY | |
| Signature  | | | Name and Title Ann M. Tillman, Consultant | | Date Oct. 21, 2013 |

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| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| | | Cite-All | Y-Tex Corp. | PAY | |
| | | Cite-All | Zep Commercial Sales & Service | PAY | |
| | | Cite-All | BASF Sparks LLC | PAY | |
| | | Cite-All | Control Solutions, Inc. | PAY | |
| | | Cite-All | Nufarm Americas, Inc. | PAY | |
| | | Cite-All | Makhteshim-Agan of North America, Inc. | PAY | |
| | | Cite-All | Spray Drift Task Force | OWN | See endnote ⁹ |
| | | Cite-All | Cheminova Inc. | PAY | |
| | | Cite-All | Arborsystems, Inc. | PAY | |
| | | Cite-All | BASF Corp. | PAY | |
| | | Cite-All | Outdoor Residential Exposure Task Force | OWN | See endnote ⁹ |
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Ingredient Abamectin (CAS Nos. 65195-55-3 and CAS No. 65195-56-4)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|----------------------|-------------|---|--------|--------------------------|
| | | Cite-All | Agricultural Reentry Task Force | OWN | See endnote ⁹ |
| | | Cite-All | Nations AG II, LLC | PAY | |
| | | Cite-All | Rockwell Laboratories Ltd. | PAY | |
| | | Cite-All | Farmsaver.com, LLC | PAY | |
| | | Cite-All | Innovative Pest Control Products | PAY | |
| | | Cite-All | FIFRA Endangered Species Task Force LLC | PAY | |
| | | Cite-All | Residential Exposure Joint Venture | PAY | |
| | | Cite-All | Agricultural Handlers Exposure Task Force | OWN | See endnote ⁹ |
| | | Cite-All | Gro-Pro LLC | PAY | |
| | | Cite-All | Zhjiang Tide Cropscience Co., Ltd. | PAY | |

Signature



Name and Title

Ann M. Tillman, Consultant

Date


Oct. 21, 2013

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| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| | | Cite-All | Rotam USA LLC | PAY | |
| | | Cite-All | Rotam Limited | PAY | |
| | | Cite-All | Etigra LLC | PAY | |
| | | Cite-All | Ensysyex III, Inc. | PAY | |
| | | Cite-All | Rotam Agrochemical Co., Ltd. | PAY | |
| | | Cite-All | Celsius Property B.V. Amsterdam | PAY | |
| | | Cite-All | Agsaver, LLC | PAY | |
| | | Cite-All | Ensysyex IV, Inc. | PAY | |
| | | Cite-All | Tide International USA Inc. | PAY | |
| | | Cite-All | Hebei Veyong Bio-Chemical Co., Ltd. | PAY | |
| | | Cite-All | Generic Endangered Species Task Force | PAY | |
| | | Cite-All | Abamax Chemical LLC | PAY | |
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| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| | | Cite-All | Redeagle International LLC | PAY | |
| | | Cite-All | Willowood, LLC | OWN | See endnote ¹⁰ |
| Signature  | | | Name and Title Ann M. Tillman, Consultant | | Date Oct. 21, 2013 |

Endnotes for Data Matrix for Willowood Abamectin Technical

-
- ¹ 830.1650 - These data are not required for the registration of a technical grade active ingredient product. See 830.1620 for production process information.
- ² 830.6313 - Willowood Abamectin, LLC does not package Willowood Abamectin Technical in metal containers, nor is Willowood Abamectin Technical expected to come into contact with metals or metal ions during its storage or use. Therefore, a waiver from the requirement of these data was approved. Willowood Abamectin Technical was found to be stable at normal and elevated temperatures.
- ³ 830.6315 - EPA approved a waiver from the requirement of this data requirement since Willowood Abamectin Technical is a solid and is not expected to be flammable.
- ⁴ 830.6316 - EPA approved a waiver from this data requirement because Abamectin does not have the chemical bonds or functional groups associated with explosive chemicals.
- ⁵ 830.6317, 830.6320 - Per PR Notice 92-5, storage stability and corrosion characteristics data are not required to be submitted unless specifically requested by the Agency. Willowood Abamectin, LLC has initiated these studies and will submit the data when the studies are completed.
- ⁶ 830.6319, 830.6321, 830.7100, 830.7520 - Willowood Abamectin Technical is a solid and not an emulsifiable concentrate and is not to be diluted with petroleum solvents. Therefore, miscibility data are not required for this technical. Willowood Abamectin Technical is not to be used around electrical equipment and data for dielectric breakdown constant are not required. Willowood Abamectin Technical is a solid and not a liquid, therefore, viscosity data are not required for this product. EPA approved a waiver for particle size, fiber length and diameter distribution because Willowood Abamectin Technical is not water insoluble nor is it a fibrous material.
- ⁷ 830.7220 - Willowood Abamectin Technical is a solid and boiling point data are not required for solids. Data for melting point are required for solids. See Guideline 830.7200.
- ⁸ 830.7370 - EPA approved a waiver for this data requirement since abamectin does not have any functional groups that would dissociate.
- ⁹ Willowood Abamectin, LLC through its affiliation with Willowood, LLC is a member in good standing with this task force and an offer to pay is not required.
- ¹⁰ Willowood Abamectin, LLC is affiliated with Willowood, LLC and as such, an offer to pay is not required.